Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Original) A method for mitigating defect formation in a phosphosilicate glass layer, the method comprising forming an oxide cap upon the phosphosilicate glass layer via a chemical vapor deposition process.

2. Cancelled

3. (Currently Amended) The method as recited in claim 2, wherein forming a glass layer comprises A method for mitigating defect formation in a glass layer of a semiconductor device, the method comprising:

forming a phosphosilicate glass layer upon a substrate; and forming a cap oxide layer upon the glass layer.

4. (Currently Amended) The method as recited in claim 2, wherein the substrate emprises A method for mitigating defect formation in a glass layer of a semiconductor device, the method comprising:

forming a glass layer upon a silicon substrate; and forming a cap oxide layer upon the glass layer.

5. (Currently Amended) The method as recited in claim 2, wherein the substrate has A method for mitigating defect formation in a glass layer of a semiconductor device, the method comprising:

forming a glass layer upon a substrate having at least one semiconductor layer formed thereon; and

forming a cap oxide layer upon the glass layer.

- 6. (Currently Amended) The method as recited in claim 23, wherein forming the cap oxide layer upon the glass layer comprises forming the cap oxide layer via a chemical vapor deposition process.
- 7. (Currently Amended) The method as recited in claim 2, wherein:

forming the glass layer upon the substrate comprises A method for mitigating defect formation in a glass layer of a semiconductor device, the method comprising:

forming the <u>a glass layer upon a substrate</u> via a first chemical vapor deposition process; and

forming the cap oxide layer upon the glass layer comprises forming thea cap oxide layer upon the glass layer via a second chemical vapor deposition process; and

wherein a reactor within which the first and second chemical vapor deposition processes are performed is not broken between the first and second chemical vapor deposition processes.

- 8. (Currently Amended) The method as recited in claim 23, wherein forming a cap oxide layer upon the glass layer comprises forming an undoped oxide layer upon the glass layer.
- 9. (Currently Amended) The method as recited in claim 2, wherein A method for mitigating defect formation in a glass layer of a semiconductor device, the method comprising:

forming a glass layer upon a substrate; and

forming a cap oxide layer upon the glass layer-comprises, the forming of a cap oxide layer comprising forming an undoped oxide layer upon a P doped oxide film.

10. (Currently Amended) The method as recited in claim 2, A method for mitigating defect formation in a glass layer of a semiconductor device, the method comprising:

forming a glass layer upon a substrate; and

forming a cap oxide layer upon the glass layer;

wherein at least one of the glass layer and the cap oxide <u>layer</u> is formed by a process selected from the group consisting of: a plasma enhanced chemical vapor deposition process; a sub-atmosphere chemical vapor deposition process; and an atmospheric ambient chemical vapor deposition process.

- 11. (Currently Amended) The method as recited in claim 23, wherein the cap oxide layer is formed to have a thickness greater than 300 Angstroms.
- 12. (Currently Amended) The method as recited in claim 23, wherein a phosphorus blocking capability of the cap oxide layer is at least 11% by weight.
- 13. (Currently Amended) The method as recited in claim 23, wherein the cap oxide layer is formed by SiH4 and N2O reacting gases.
- 14. (Currently Amended) The method as recited in claim 23, wherein the cap oxide layer is formed by TEOS and O2 reacting gases.
- 15. (Currently Amended) The method as recited in claim 23, wherein the cap oxide layer process temperature is between approximately 350°C and approximately 600°C.
- 16. (Currently Amended) The method as recited in claim 23, wherein the glass layer process temperature is between approximately 450°C and approximately 650°C.
- 17. (Currently Amended) The method as recited in claim 23, wherein forming the cap oxide layer comprises forming at least one of inter-layer dielectric, inter-poly dielectric and inter-metal dielectric layers.

18-24. Cancelled